

(19) World Intellectual Property
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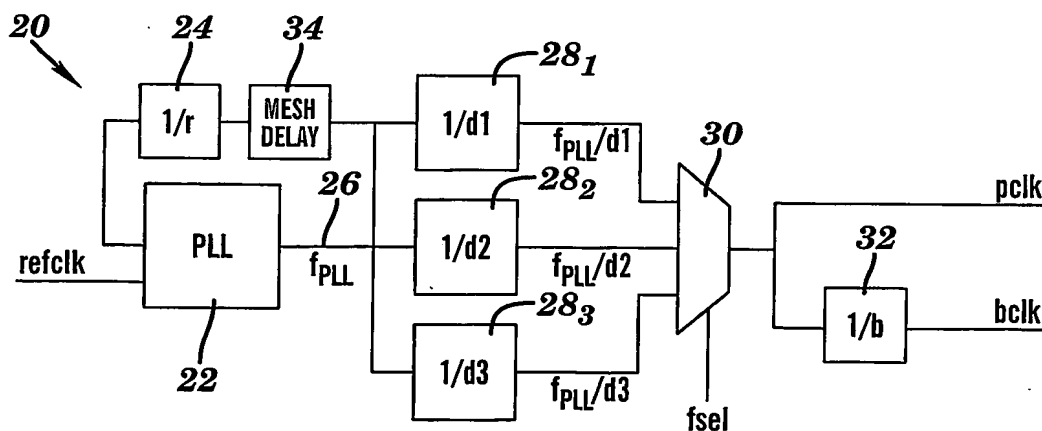
(43) International Publication Date
9 June 2005 (09.06.2005)

PCT

(10) International Publication Number
WO 2005/052820 A1

- (51) International Patent Classification⁷: **G06F 17/50**, 1/08, 1/04
- (21) International Application Number:
PCT/US2003/034702
- (22) International Filing Date: 31 October 2003 (31.10.2003)
- (25) Filing Language: English
- (26) Publication Language: English
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- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Declaration under Rule 4.17:**
— of inventorship (Rule 4.17(iv)) for US only
- Published:**
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD AND APPARATUS FOR DYNAMIC SYSTEM-LEVEL FREQUENCY SCALING



(57) Abstract: A method and apparatus for changing a clock frequency in a system (10) comprising a plurality of synchronous integrated circuit chips (12, 14, 16), and a circuit (20) for implementing the frequency change. The method includes: detecting a change in processing requirements in one of the plurality of synchronous integrated circuit chips; notifying the plurality of synchronous integrated circuit chips that a clock frequency change is to occur; achieving a quiescent bus state in each of the plurality of synchronous integrated circuit chips; notifying the plurality of synchronous integrated circuit chips that the clock frequency change can occur; and changing the clock frequency of the plurality of integrated circuit chips.